

SUCTION CONNECTION FOR DUAL CENTRIFUGAL COMPRESSOR REFRIGERATION SYSTEMS

ABSTRACT OF THE DISCLOSURE

A dual centrifugal compressor refrigeration system has one evaporator for both compressors. The evaporator provides the centrifugal compressors with refrigerant vapor through separate suction connections for each compressor. Each suction connection has a protrusion that extends into the evaporator vessel to disturb the axial flow of refrigerant vapor in the evaporator vessel. The disturbance of the axial flow of refrigerant vapor in the evaporator vessel permits a surging compressor to draw refrigerant vapor in order to recover from the surge condition.